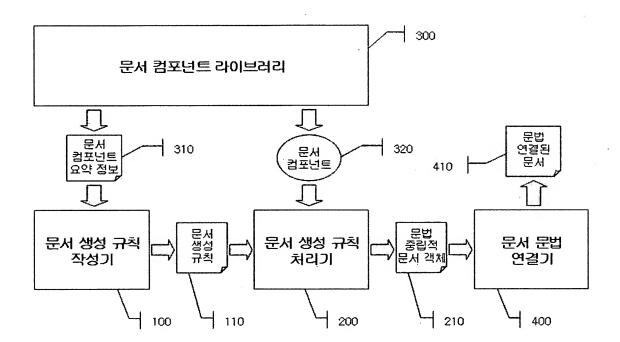
□drawing□

□FIG. 1□

FIG. 1 shows a schematic diagram of a configuration of a component-based automatic document generation system according to an exemplary embodiment of the present invention.



- 300: Document component library
- 310: Document component summary information
- 320: Document component

5

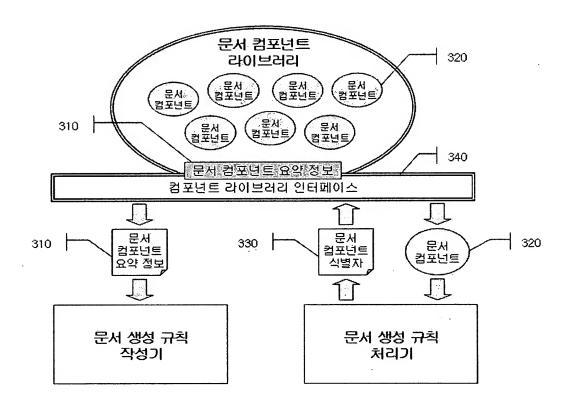
- 10 410: Grammar connected document
 - 100: Document generation rule formulator
 - 110: Document generation rule
 - 200: Document generation rule processor

210: Grammar neutral document

400: Document grammar connector

□FIG. 2□

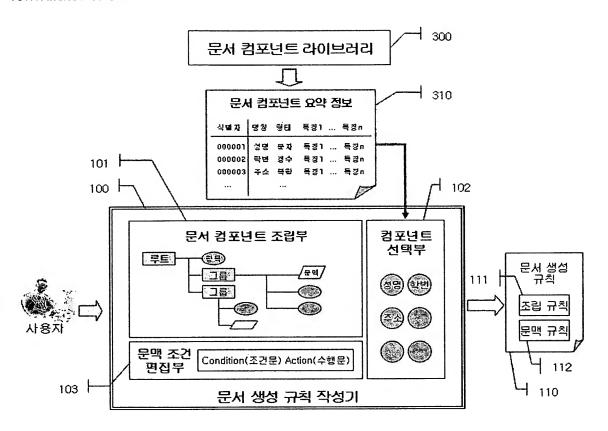
FIG. 2 shows a diagram of a configuration of a document component library shown in FIG. 1.



- 5 320: Document component
 - Document component library
 - 310: Document component summary information
 - 340: Component library interface
 - 330: Document component ID
- 10 문서 생성 규칙 작성기: Document generation rule formulator
 - Document generation rule processor

□FIG. 3□

FIG. 3 shows a diagram of a configuration of a document generation rule formulator shown in FIG. 1.



- 5 100: Document generation rule formulator
 - 300: Document component library
 - 310: Document component summary information
 - □□□: ID
 - □□: Name
- 10 **□**: **Type**
 - □□1...□□n: Characteristic 1 ... Characteristic n
 - 101: Document component assembler
 - 루트: Root

항목: Item

그륨: Group

문맥: Context

102: Component selector

5 성명: Name

학번: Student ID number

주소: Address

103: Context condition compiler

사용자: User

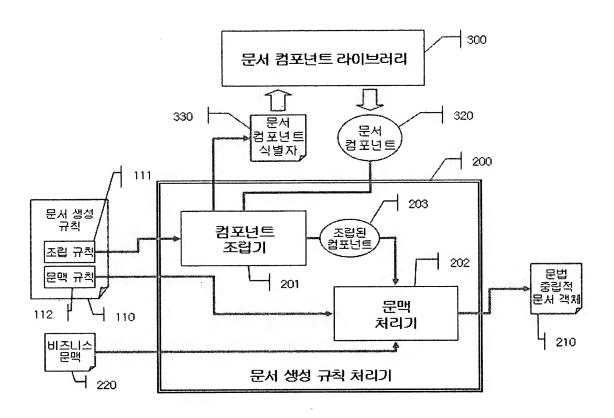
10 110: Document generation rule

111: Assembly rule

112: Context rule

□FIG. 4□

FIG. 4 shows a diagram of a configuration of a document generation rule processor shown in FIG. 1.



- 5 300: Document component library
 - 330: Document component ID
 - 320: Document component
 - 110: Document generation rule
 - 111: Assembly rule
- 10 112: Context rule
 - 200: Document generation rule processor
 - 201: Component assembler
 - 203: Assembled component

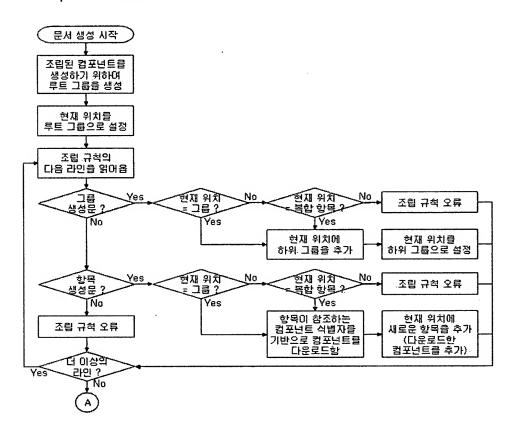
202: Context processor

210: Grammar neutral document object

220: Business context

□FIG. 5□

FIG. 5 shows a flowchart representing an operation for processing an assembly rule in a component assembler shown in FIG. 4.



Start generating document

Generate root group to generate assembled component

Generate root group to generate assembled component

Generate root group to generate assembled component

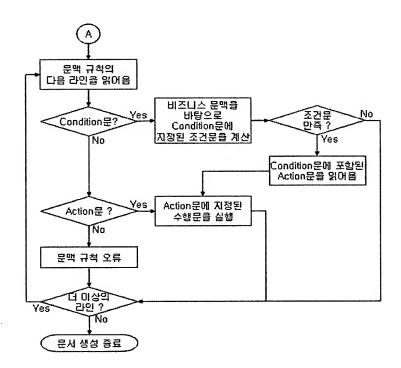
Generate root group to generate root group

Gener

	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
	□□ □□□ □□□□ □□: Establish current location as lower group
	The contraction sentence?
	Download component based
5	on component ID as reference of item.
	☐☐ ☐☐☐ ☐☐☐ ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐
	(Add downloaded component)
	□ □□□ □□?: More line?

□FIG. 6□

FIG. 6 shows a flowchart representing an operation for processing a context rule in a context processor shown in FIG. 4.



5 Read subsequent line of context rule

Condition문?: Condition sentence?

비즈니스 문맥을 바탕으로 condition문에 지정된 조건문을 계산: Calculate condition sentence designated to condition sentence based on business context 조건문 만족?: Satisfy condition sentence?

Condition Action Execute action sentence in condition sentence

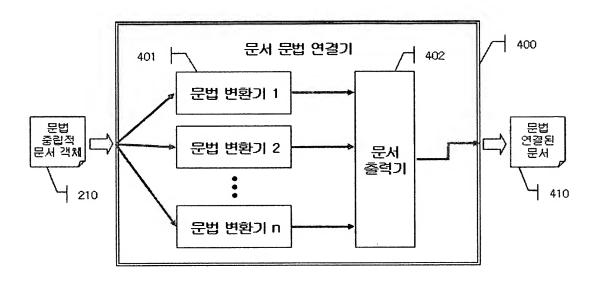
Action Execute action sentence

Action□?: Action sentence?

Context rule error
□ □□□: More line?
☐☐ ☐☐: Finish generating document

□FIG. 7□

FIG. 7 shows a diagram of a configuration of a document grammar connector shown in FIG. 1.



- 5 210: Grammar neutral document
 - 400: Document grammar connector
 - 401: Grammar converter
 - 402: Document output unit
 - 410: Grammar-connected document